MATERIAL SAFETY

3M

DATA SHEET

3M Center

St. Paul, Minnesota

55144-1000

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

DIVISION: ELECTRICAL PRODUCTS DIVISION TRADE NAME:

3M BRAND ELECTRICAL INSULATING TAPE Super 33+ and Super 88.

ISSUED: October 29, 2001 SUPERSEDES: September 10, 2001

DOCUMENT: 10-9735-1

1. INGREDIENT	C.A.S. NO.			
POLYVINYL CHLORIDE FILM WITH RUBBER BASED ADHESIVE	None		100.0	
ANTIMONY TRIOXIDE	1309-64-4	1	- 2	
ZINC OXIDE	1314-13-2		< 0.15	
PVC FILM BACKING	Mixture	80	- 95	
POLY(VINYL CHLORIDE)	9002-86-2	50	- 60	
POLYESTER RESN	TradeSecret	25	- 35	
DI-C8-10-BRANCHED ALKYL PHTHALATE, C9				
RICH	68515-48-0	1	- 5	
LEAD OXIDE PHOSPHONATE	12141-20-7	1	- 3	

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

ANTIMONY TRIOXIDE

ZINC OXIDE

PVC FILM BACKING

LEAD OXIDE PHOSPHONATE

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2. PHYSICAL DATA
BOILING POINT: N/A VAPOR PRESSURE: N/A VAPOR DENSITY: N/A EVAPORATION RATE: N/A SOLUBILITY IN WATER: NIL SPECIFIC GRAVITY: N/A PERCENT VOLATILE: 0 pH: N/A VISCOSITY: N/A MELTING POINT: N/D
APPEARANCE AND ODOR: Black Tape
3. FIRE AND EXPLOSION HAZARD DATA
FLASH POINT: N/A FLAMMABLE LIMITS - LEL: N/A FLAMMABLE LIMITS - UEL: N/A AUTOIGNITION TEMPERATURE: N/D
EXTINGUISHING MEDIA: Carbon dioxide, Dry chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.
UNUSUAL FIRE AND EXPLOSION HAZARDS: See Hazardous Decomposition section for products of combustion.
NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0 UNUSUAL REACTION HAZARD: none
OSHA FIRE HAZARD CLASS: Not applicable
4. REACTIVITY DATA
STABILITY: Stable
<pre>INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID: Strong Oxidizing Agents, Finely divided active metals. Not applicable.</pre>
Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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4. REACTIVITY DATA (continued)		
HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.		
HAZARDOUS DECOMPOSITION PRODUCTS: Under recommended usage conditions, hazardous decomposition product are not expected. Hazardous decomposition products anticipated as a result of oxidation (excluding burning), heating, or reaction with another material may include: Carbon Monoxide and Carbon Dioxide, Hydrogen Chloride, Hydrocarbons, Oxides of Zinc, Oxides of Lead, Oxides of Antimony, Toxic Vapors, Gases or Particulates, Irritant Vapors or Gases		
Conditions of extreme heat or fire conditions needed for decomposition to occur.		
5. ENVIRONMENTAL INFORMATION		
SPILL RESPONSE: Not applicable.		
RECOMMENDED DISPOSAL: Dispose of waste product in a sanitary landfill.		
ENVIRONMENTAL DATA: Not determined.		
REGULATORY INFORMATION: Volatile Organic Compounds: N/D. VOC Less H2O & Exempt Solvents: N/D.		
Since regulations vary, consult applicable regulations or authoriti before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).	es	
EPCRA HAZARD CLASS: FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC:	Yes	
6. SUGGESTED FIRST AID		
EYE CONTACT:		

No need for first aid is anticipated.

SKIN CONTACT:
No need for first aid is anticipated.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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6. SUGGESTED FIRST AID (continued)

INHALATION:

No need for first aid is anticipated.

IF SWALLOWED:

No need for first aid is anticipated.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact.

SKIN PROTECTION:

Avoid prolonged or repeated skin contact.

RECOMMENDED VENTILATION:

Use in a well-ventilated area.

RESPIRATORY PROTECTION:

Avoid breathing of thermal decomposition products.

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating. Do not ingest.

RECOMMENDED STORAGE:

Store in a cool place.

FIRE AND EXPLOSION AVOIDANCE:

Keep away from heat, sparks, open flame, and other sources of ignition.

OTHER PRECAUTIONARY INFORMATION:

A Material Safety Data Sheet (MSDS) is not required by the OSHA Hazard Communication Standard (29CFR 1910.1200) for this product. This MSDS is provided as a service to customers.

HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTION: X

EXPOSURE LIMITS

INGREDIENT	VALUE			AUTH SKIN*	
POLYVINYL CHLORIDE FILM WITH					
RUBBER BASED ADHESIVE	NONE	NONE	NONE	NONE	
ANTIMONY TRIOXIDE	0.5	MG/M3	TWA	ACGIH	
as Sb					
ZINC OXIDE	10	MG/M3	TWA	ACGIH	
AS DUST					
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EXPOSURE LIMITS	(continued)
INGREDIENT	VALUE UNIT TYPE AUTH SKIN*
ZINC OXIDE	
ZINC OXIDE	5 MG/M3 TWA ACGIH
ZINC OXIDE	10 MG/M3 STEL ACGIH
ZINC OXIDE	5 MG/M3 TWA OSHA as fume
ZINC OXIDE	10 MG/M3 STEL OSHAV as fume OSHA VACATED PEL
ZINC OXIDE	15 MG/M3 TWA OSHA AS TOTAL DUST
ZINC OXIDE	5 MG/M3 TWA OSHA RESPIRABLE
PVC FILM BACKING	0.05 MG/M3 TWA ACGIH
PVC FILM BACKING	0.05 MG/M3 TWA OSHA
POLY(VINYL CHLORIDE)POLYESTER RESNDI-C8-10-BRANCHED ALKYL PHTHALATE,	NONE NONE NONE NONE NONE NONE NONE
C9 RICHLEAD OXIDE PHOSPHONATE	5 MG/M3 TWA CMRG 0.05 MG/M3 TWA ACGIH as Pb
LEAD OXIDE PHOSPHONATE	0.05 MG/M3 TWA OSHA as Pb

^{*} SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- OSHAV: Occupational Safety and Health Administration Vacated PEL. Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Eye contact is not expected to occur during normal use of the product.

SKIN CONTACT:

No adverse health effects are expected from skin contact.

Contact with the skin during product use is not expected to result in significant irritation.

INHALATION:

No adverse health effects are expected from inhalation exposure.

Health effects from inhalation are not expected unless the product is over heated and decomposition occurs.

If thermal decomposition occurs:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

No adverse health effects are expected from swallowing.

CANCER:

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

WARNING: Contains a chemical which can cause cancer. (12141-20-7) (IARC possible human carcinogen 2B - Inorganic Lead Compounds, ACGIH animal carcinogen A3 - Inorganic Lead Compounds, Calif. Proposition 65 - Lead Compounds)

WARNING: Contains a chemical which can cause cancer. (1309-64-4) (ACGIH suspected human carcinogen A2, IARC possible human carcinogen 2B, Calif. Proposition 65)

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

WARNING: Contains a chemical which can cause birth defects, reproductive harm, and developmental effects. (12141-20-7)

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8. HEALTH HAZARD DATA (continued)		
OTHER HEALTH HAZARD INFORMATION: This product, when used under reasonable conditions or in accordance with the 3M directions for use, should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.		
SECTION CHANGE DATES	. – – – – .	

HEADING SECTION CHANGED SINCE September 10, 2001 ISSUE

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